BAGADUCE RIVER, ME.

LETTER

FROM

HE ACTING SECRETARY OF WAR,

TRANSMITTING,

TH A LETTER FROM THE CHIEF OF ENGINEERS, REPORT ON PRELIMINARY EXAMINATION OF BAGADUCE RIVER, ME.

ксн 31, 1914.—Referred to the Committee on Rivers and Harbors and ordered to be printed, with illustration.

WAR DEPARTMENT, Washington, March 28, 1914.

e Speaker of the House of Representatives.

Sir: I have the honor to transmit herewith a letter from the Chief Engineers, United States Army, of this date, together with copy report from Lieut. Col. W. E. Craighill, Corps of Engineers, dated nuary 27, 1914, with map, on preliminary examination of Bagaduce ver, Me., made by him in compliance with the provisions of the er and harbor act approved March 4, 1913.

Very respectfully,

HENRY BRECKINRIDGE, Acting Secretary of War.

WAR DEPARTMENT,
OFFICE OF THE CHIEF OF ENGINEERS,
Washington, March 28, 1914.

m: The Chief of Engineers, United States Army.

The Secretary of War.

pject: Preliminary examination of Bagaduce River, Me.

There is submitted herewith, for transmission to Congress, ort dated January 27, 1914, with map, by Lieut. Col. W. E. ighill, Corps of Engineers, on preliminary examination of Bagae River, Me., called for by the river and harbor act approved ch 4, 1913.

2. Bagaduce River is a tidal estuary or arm extending from th eastern side of the upper part of Penobscot Bay. At a distance of about 4 miles from its mouth it divides into two branches, on extending southeastwardly and the other terminating in a shallow basin called Northern Bay. The locality was under improvemen by the United States between 1888 and 1902, with a view to obtain ing a channel 100 feet wide and 6 feet deep at mean low tide from Bridges Point to South Penobscot. The project depth was secured except at Winslows Island, but only for a width of 40 feet. improvement now apparently desired is the completion of the original inal project. The district officer states that the desired improve ment can be obtained only at a cost in excess of that justified b the amount of commerce involved, present and prospective, and I therefore expresses the opinion that the locality is not worthy improvement by the General Government. In this view the divisic engineer concurs.

3. This report has been referred, as required by law, to the Boar of Engineers for Rivers and Harbors, and attention is invited to i report herewith, dated March 10, 1914, concurring with the view

of the district officer and division engineer.

4. After due consideration of the above-mentioned reports, I co cur with the views of the district officer, the division engineer, at the Board of Engineers for Rivers and Harbors, and therefore reportant the improvement by the United States of Bagaduce River, the manner apparently desired by the interests concerned, is in deemed advisable at the present time.

DAN C. KINGMAN, Chief of Engineers, United States Army.

REPORT OF THE BOARD OF ENGINEERS FOR RIVERS AND HARBOI

[Third indorsement.]

BOARD OF ENGINEERS FOR RIVERS AND HARBORS,

March 10, 1914

To the Chief of Engineers, United States Army.

1. Bagaduce River is a tidal estuary or arm of Penobscot B About 4 miles from its mouth it divides into two branches. I northern one, a very shallow bay with the bottom exposed at low tins where improvement is desired. The range of tide is about 10 for The adjacent villages and tributary country have a population about 1,500 persons, depending largely upon water transportation. The amount of commerce reported for this section of the waterwis 7,280 tons, having a value of about \$90,000.

2. The river has been improved at a cost of about \$28,000 under project which provided for a channel leading to South Penobs village, having a depth of 6 feet and a width of 100 feet. The dewas secured except at Winslows Island, but for a width of 40 is only. It is stated that the improvement now apparently desired that the original project shall be carried to completion, so that 6 at mean low tide may be had up to the wharf at South Penobs No appropriation for this locality has been made since 1902.

3. The district officer states that the improvement desired can be obtained only at a cost in excess of that justified by the amount of commerce involved, present or prospective, and therefore it is his pinion that the locality is not worthy of improvement by the General Fovernment. In this view the division engineer concurs.

4. Interested parties were advised of the unfavorable report of the listrict officer and given an opportunity of submitting their views to he board, but no communications on the subject have been received.

5. While better navigation facilities would be of advantage and penefit to the community at and adjacent to South Penobscot village, he present commerce to be affected is small in amount and value, and there is nothing to indicate any material increase if the improvement s carried out. Believing that the improvement desired would not esult in commensurate benefits, the board concurs with the district officer and the division engineer and reports that in its opinion it is not advisable for the United States to undertake the work.

6. In compliance with law, the board reports that there are no questions of terminal facilities, water power, or other related subjects which could be coordinated with the suggested improvement in such nanner as to render the work advisable in the interests of commerce

and navigation.

For the board:

W. M. Black, Colonel, Corps of Engineers, Senior Member of the Board.

PRELIMINARY EXAMINATION OF BAGADUCE RIVER, ME.

United States Engineer Office, Portland, Me., January 27, 1914.

From: The District Engineer Officer.

Γο: The Chief of Engineers, United States Army

(Through Division Engineer).

Subject: Preliminary examination of Bagaduce River, Me.

1. The river and harbor act approved March 4, 1913, directs a

oreliminary examination of Bagaduce-River, Me.

2. Bagaduce River is a tidal estuary or arm extending from the eastern side of the upper part of Penobscot Bay, Me. Castine, a town of some importance, is located on the northerly side of the mouth of Bagaduce River, where it widens and is given the name of Castine Harbor. The river, so-called, extends northeastwardly for about 4 miles from its mouth. It then branches. One branch flows southeastwardly and the other terminates almost at once at a broadened end called Northern Bay, a very shallow basin of about 700 acres area. This bay is almost entirely exposed at low tide, the flats ranging from the level of low tide to about 4 feet above that level. The bottom is for the most part clay with some ledge and very many bowlders. The mean tidal range in Northern Bay approaches 10 feet. The depth at Bridges Point, at the mouth of the bay, is about 14 feet at mean low tide, though for most of the river from thence to the mouth the depth is very much greater and the width fairly good. The existence of extensive basins produces rather strong

ciently so to greatly interfere with navigation. A reconnoissance map accompanies this report, on which have been indicated the present approximate depths in the channel which had been pre-

viously dredged.

3. On the shores of Northern Bay, which is the portion of the river specifically covered by this examination, there are two small villages-Penobscot village on the northeasterly shore, and South Penobscot village on the southeasterly shore. These, with parts of adjacent towns have an aggregate population of about 1,500 persons who are served more or less directly by the transportation facilities afforded by Bagaduce River. Communication to regular transportation lines at other places is by team to West Penobscot, where a steamboat touches, or by stage to Bucksport, a distance of about 14 miles, where the Maine Central Railroad may be reached. Castine at the mouth of the river, has steamboat service and can be reached by water via Bagaduce River, or by road, the latter distance being There are eight stores at the two villages above named, two brickyards, two sawmills, a concern making knit goods and one making barrel hoops. Other business consists in the agricultural products of the region. The annual water borne traffic from this portion of the Bagaduce River is about as follows:

		Short tons
Lumber	• • • • • • • • • • • • • • • • • • • •	2,57
Bricks.		1,50
Kiln wood		$\dots 1,11$
Hay, grain, and flour		1,03
Potatoes		
General merchandise		10
Fertilizer		6
Yarn and knit goods		1
Total		7,28

The estimated value of these commodities is about \$90,000.

4. The reports on a preliminary examination and survey, made as a result of an order in the river and harbor act of August 5, 1886 were printed in House Executive Document No. 157, Fiftieth Con gress, first session. A project was suggested for excavating a channel 100 feet wide, and 6 feet deep at mean low tide, for a distance o about 4,000 feet from Bridges Point to South Penobscot. The esti mated cost was \$45,000, in addition to which an estimate was sub mitted for removing about 125 cubic yards of rock at Johnson Narrows in the southerly branch, at an estimated cost of \$1,875 By act of August 11, 1888, Congress appropriated \$3,000 for this improvement and from that date to 1902 made six additional appro priations (one of \$4,000, three of \$5,000 each, and two of \$3,000 each) amounting in all to \$28,000. The work was commenced, but the amounts available at any one time were so small that but little could be accomplished. After expenditure of the last appropriation the result was that the channel had been excavated its entire proposed length, but for only 40 feet width. The project depth of 6 feet had been obtained except at Winslows Island, about midway of the length of the channel, where only about 4 feet at mean low tide had been secured. In the Annual Report for 1912 it was stated that a no appropriation has been made for this work since 1902 further improvement of the locality should be dependent on a reexamination showing such work to be advisable at this time. It is understood that the order for the new examination in the river and harbor act of 1913

is the result of the above statement in the Annual Report.

In 1892 a report on a preliminary examination of the South Fork of the Bagaduce River, Me., made under the requirements of the river and harbor act of that year, was submitted and printed in House Executive Document No. 17, Fifty-second Congress, second session.

The report was adverse.

In 1897 a survey was made under the provisions of the river and harbor act of June 3, 1896, for a channel leading up to Penobscot village, on the northeastern shore of the bay, and the report was printed in House Document No. 144, Fifty-fifth Congress, second The report was accompanied by a map. The improvement considered at that time was the dredging of a channel from the 6-foot contour to Penobscot village, 100 feet wide and 6 feet deep at mean low tide. The length was about 2,600 feet and the estimate of cost was \$45,700. This project also failed to receive favorable recommendation.

5. It appears upon developing the situation that what is now desired by the people on the easterly shore of Northern Bay is that the original project shall be carried to completion so that 6 feet at mean low tide may be had up to the wharf at South Penobscot and thus better water transportation for that locality, as well as for Penobscot village, which is about 1 mile distant, and for the country back of these settlements. It is claimed that could this be secured regular steamboat transportation could be established, and that parties stand ready to undertake it. It is further stated that rates are high because vessels are obliged to go out about half laden because of lack of sufficient depth, although there is ample cargo to fill them. Many passengers and much goods would go in and out via such a channel, which now have to be hauled from 4 to 5 miles or more to other points. The extent or quantity of passenger and freight business which is obliged to seek other terminals is not definitely stated, and perhaps an not be. Neither have I been able to secure a satisfactory statenent as to what annual saving would result were the additional faciliies provided. The population involved, however, and the amount of business already done via Bagaduce River will give a good general dea of the relative importance of the locality from a business point of riew, and will enable the formation of an opinion as to the extent of he benefit which would be secured were the improvement completed is originally planned.

6. The wharves at Penobscot and South Penobscot are ample to upply all business existing or immediately prospective, and there property to be no lack of accommodation for anyone desiring to use he wharves. One of those at South Penobscot is open to use by

he public on common terms and at very reasonable rates.

7. There are no questions connected with any project at present uggested, in the way of water power development or land reclamaion, which could be advanced as instruments for lessening the cost o the Government. A project was suggested some two years ago y private parties to throw a dam across the Bagaduce River below Northern Bay, with a view to developing and utilizing power, but he expense would be considerable, navigation would have to be

provided for, and at the present time it is not thought that the outlook would by any means justify the Government in considering

such a scheme.

8. The people who are asking for completion of the improvement in Bagaduce River are energetic and enterprising within the scope of the possibilities of the environment, and the business they are doing is worthy of encouragement and of better facilities for transportation, but unfortunately the physical conditions at that locality are such that betterment can be obtained only at a cost so far in excess of that justified by the amount of commerce, either present or prospective, involved, that I feel obliged to give it as my opinion that the locality is not worthy of improvement by the General Government.

W. E. CRAIGHILL, Lieut. Col., Corps of Engineers.

[First indorsement.]

Office Division Engineer, Northeast Division, New York City, January 30, 1914.

To the CHIEF OF ENGINEERS, UNITED STATES ARMY.

Forwarded, concurring in the opinion of the district engineer officer. FREDERIC V. ABBOT,

Colonel, Corps of Engineers.

[For Report of the Board of Engineers for Rivers and Harbors, see page 2.]



